

**METHOD AND APPARATUS FOR PREDICTION OF COMPUTER SYSTEM
PERFORMANCE BASED ON TYPES AND NUMBERS OF ACTIVE DEVICES**

Abstract

A method for predicting a subsequent resource utilization in a computer
5 system having a plurality of devices includes the step of monitoring, over a
period of time, a contemporaneous resource utilization and a number of active
devices to obtain monitored values of the contemporaneous resource utilization
and the number of active devices. The subsequent resource utilization is
10 predicted, based upon the monitored values of the contemporaneous resource
utilization and the number of active devices. Additionally, methods are described
herein for identifying resource saturation and predicting the effects of adding a
new device in a computer system.